

## Timely Farm Hints

No. 9.

By F. G. KRAUSS, Supt.  
Haiku Extension Division,  
Hawaii Experiment Station

## Cow Peas

A Premier Leguminous Field Crop  
For Hawaii.

Summary of the good qualities of the cow pea as proved by four years of trial on a field scale at Haiku Sub-Station.

1. Ability to produce a profitable crop on soils producing corn at a loss.  
2. On soil producing forty bushels of corn the cow pea has yielded an equal amount of grain and forage of a kind which will almost double the feeding value of corn when the two are fed in combination.

3. Cow peas intercropped with corn give a greater total yield by from ten to thirty percent over yields produced from growing either crop singly.

4. Cow peas as a pasture crop for swine has produced the cheapest feed and one of the best we have ever tried. A combination of corn and cow peas "hogged down" would doubtless prove of even greater value than the above under Hawaiian conditions as it has in the South.

5. The quick maturing habit of the cow pea and its resistance to drought renders it admirably adapted for planting as a catch crop between the regular crops of a rotation. We have found it especially suited to summer or early fall planting following the corn crop by merely discing the land.

6. Heavy foliaged varieties such as the Brabham and Iron variety, have yielded us three and a half tons of hay per acre as nutritious as the best imported alfalfa hay, and if anything, more palatable to our work mules and milch cows. When ground as fine as alfalfa meal, it has at least equal value to the latter and may be used in exactly the same way.

7. A three to four months cow pea crop will yield eight to twelve tons of the best green manure than can be turned under to supply humus and fertility to light, thin soils. Three such crops turned under have increased the yielding power of some of our Sub-Station soils from thirty five bushels of corn to sixty five bushels of corn per acre. During the past year the record crop of one hundred and seven bushels of corn was produced on such green-manured land with the addition of five hundred pounds per acre of reverted phosphate. No complete chemical fertilizer that has yet been tried up to one thousand pounds per acre has yielded more than fifty per cent of the increase obtained by green-manuring alone. This proves to us that the highest efficiency from commercial fertilizers can only be obtained with the aid of green-manuring.

8. One of the important qualities imparted to the soil by turning under heavy crops of cow peas is the marked improvement in the physical condition of the soil. Soils so treated are much more easily tilled and retain their moisture better than those not green manured.

9. In the fifteen varieties of cow peas tested, wide difference in habit of growth is strikingly brought out. They range from heavy seedling, early maturing, bush form to rank trailing vines many feet in length, and requiring from ninety to one hundred and forty days to attain maturity.

10. The variety or varieties to be selected for planting depends upon the purposes for which the crop is grown and upon the length of the period available for growth, as in a long or short rotation whether to be intercropped or for the producing of seed, forage or pasturage.

11. Of twenty varieties tested at the Sub-Station, the following are recommended as best suited for special purposes: Brabham and Iron for forage and hay, as well as green-manuring and pasturage. Both of these yield heavily of grain if not planted too closely together, their strong point is the enormous yield of forage, which is very palatable to all kinds of live stock, either green or cured as hay. When planted between corn rows, spaced five feet apart; about ten pounds of seed per acre will be required for general purposes. When planted alone and intended for green-manuring, pasture or forage, twenty pounds of seed may be sown to advantage. For seed purposes we would recommend Groat, and Taylor as among the heaviest producers based on period of growth, both being classed as medium early. The Groat is easily thrashed directly from the vine which is not possible with the rank growing sorts such as Brabham, Iron and others of that type.

For edible peas for human consumption both green and as a dry shell bean, the small Rice and Gullivant peas stand well at the head of the list. By many persons these are considered superior to anything in the bean line and Hawaii may well give these varieties a thorough trial. The Cream Chowder peas is a recent introduction in which we have great faith for the future, and would recommend this also for trial.

As a general purposes variety we can recommend none better than the old Whippoorwill. We call it the dual purpose pea as it seems to fill many purposes.

The Black Eyes are of several types. An extra early, which is rather small seeded, the Rams-Horn black eye and Large Late black eye are fine culinary peas which thrive well in Hawaii when not stung by the melon-fly to the attacks of which it is especially susceptible.

The above varieties will fill the needs of almost every condition that is likely to arise. The Extension Division will be glad to supply further information on other varieties and can usually supply a few seeds for trial of any of twenty odd varieties.

12. Cow Peas respond to good treatment just as does corn and other

crops. Tillage will often make up for lack of fertility in the culture of cow peas. We therefore recommend that the crop be planted in rows and rarely or never broadcast as is common in the Southern states. Figure on ten pounds of seed per acre when intercropping and twice that amount when sown alone. The Brabham, Rice and Gullivant are the smallest seeded varieties and require less seed in planting. The Taylor is the largest seeded, and requires rather more seed than above indicated. The seed of the other varieties is intermediate in size. If grown for seed we have found it most feasible to hand pick the pods, the cost of which will range from fifty cents to one dollar per hundred pounds, depending on yield and variety. About sixty percent of the weight of pods is recovered as seed. When intended for hay, the vine should be cut when the first pods begin to ripen. An excellent and nutritious hay can be made from the vine after the pods have been picked, and the empty pods themselves are much relished by cattle and mules.

Although termed a pea, the cow pea is much more closely related to the bean family than peas, both in appearance and adaptation. The cow pea is easily the most important leguminous crop in Southern agriculture, where it holds the same relative position as does alfalfa in the West, and red clover in the North. But like alfalfa in its onward march, so too has the cow pea spread until at the present time the crop is grown profitably considerably north of the Ohio River.

It is little wonder that the cow pea should have found its way to Hawaii. But it is somewhat surprising that it is not yet as well known as it is, since both crops thrive and when grown together form an ideal cropping combination. While we have attributed many good qualities to the velvet bean and other leguminous forage crops which are gradually becoming established in Hawaii's rapidly developing diversified agriculture, we would place the cow pea in the front ranks of the half a dozen leading legumes, introduced by the Hawaii Experiment Station during the establishment of the Demonstration Farm at the Haiku Sub-Station in 1913 the cow pea has entered regularly into our various cropping schemes, and their culture is now established practice. During the past year some fifteen acres were planted to fifteen or more varieties. Yields on virgin land that would not produce twenty five bushels of corn per acre yielded eight tons of green forage, equivalent to two and a half tons of cow pea hay as nutritious as alfalfa. Peas of superior quality of the amount of eight hundred to fifteen hundred pounds per acre have been of common occurrence. These crops were produced for the most part as intercrops, between corn rows spaced five feet apart. When it is further stated that these crops are produced in from ninety to one hundred and forty days dependent upon variety and season of planting some of the more important virtues of the crop may be appreciated. Considered only as a forage or pasture crop, the cow peas chief advantage over the velvet bean, pigeon pea and similar heavy seed bearing legumes, is its early maturity.

The value of this feature cannot well be over estimated in an intensive diversified agriculture, since it enables the farmer to utilize a valuable catch crop in his rotation which might otherwise be left with a serious gap. Few farmers in Hawaii have as yet worked out a rational crop rotation. The loose talk one so frequently hears of two and three crops a year has not yet been worked out in general practice. One of the main reasons of this is lack in variety of suitable crops. The cow pea will do much to make possible a continuous and rational succession in the cropping scheme and thus enable the farmer to keep his lands constantly occupied without impoverishing it, but rather building up the fertility of the soil. This is good agriculture.

The following are quotations on feed f.o.b. Honolulu:

Corn, sm. yel. ton	80.00
Corn lg. yel. ton	80.00
Corn cracked, ton	82.00
Barley ton	72.00
Scratch food ton	90.00
Oats, ton	70.00
Wheat	105.00
Middling ton	75.00
Hay, wheat	45.00 to 49.00
Hay, Alfalfa	45.00

FOR SALE

1915 Buick Roadster with new tires, Stromberg carburetor, two spare rims, Klaxonet, new set of chains, and extra tubes. Here's a chance to get a high grade car for less than the price of a Ford. Apply at Paia Store.

BY AUTHORITY

IN THE CIRCUIT COURT OF THE SECOND CIRCUIT, TERRITORY OF HAWAII.

At Chambers.

In the Matter of the Estate of Kikujiro Soga, Late of Paia, Maui, Deceased.

NOTICE TO CREDITORS

All persons having claims against the above Estate are hereby notified to present their claims, duly authenticated, even if the claim is secured by mortgage, to the undersigned at the Baldwin National Bank, Kahului, Maui, T. H. within six months from date of first publication hereof, or they will be forever barred.

(Signed D. C. LINDSAY, Administrator-with the will, annexed, of the Estate of Kikujiro Soga, deceased.)

W. F. CROCKETT, Attorney for Administrator.

(May 11, 18, 25, June 1, 8)

IN THE CIRCUIT COURT OF THE SECOND CIRCUIT, TERRITORY OF HAWAII.

At Chambers.

Klozo Yashimo, Libellant vs. Kame Yashimo, Libellee.

TO KAME YASHIMO, Libellee. You are hereby notified of the pendency of the above suit for divorce against you on the grounds of desertion, and that the same has been set for hearing on Thursday, the 19th day of July, A. D. 1917 at 10 o'clock A. M., in the Court Room of this Court, in Wailuku, Maui, Hawaii, or as soon thereafter as the same may be heard. Wailuku, May 10th, 1917.

BY THE COURT:

V. C. SHOENBERG, Clerk.

ENOS VINCENT, Attorney for Libellant.

(May 11, 18, 25, June 1, 8, 15.)

## Honolulu Wholesale Produce

## Market Quotations

ISSUED BY THE TERRITORIAL MARKETING DIVISION.  
Wholesale only.

Week ending May 14, 1917.

## BUTTER AND EGGS.

Island butter, lb. cartons ..... 40  
Eggs, select, doz. .... 43  
Eggs, No. 1, doz. .... 41  
Eggs, Duck, doz. .... 35

## POULTRY.

Young roosters, lb. .... 42 to 45  
Hens, lb. .... 30 to 33  
Turkeys, lb. .... 45  
Ducks, Musc. lb. .... 28 to 30  
Ducks, Pekin, lb. .... 28 to 30  
Ducks, Haw. doz. .... 6.50

## VEGETABLES AND PRODUCE.

Beans, string, green ..... .63 to .64  
Beans, string, wax, green ..... .05 to .06  
Beans, Lima in pod ..... .04 to .05  
Beans, Maui red (None) .....  
Beans, Calico, cwt. (None) .....  
Beans, small white ..... None  
Beans, small white ..... None  
Peas, dry ls. cwt. .... None  
Carrots, doz. bunches ..... 40  
Cabbage, cwt. .... 3.00 to 3.50  
Corn, sweet 100 ears ..... 3.00  
Corn, Haw. sm. yel. (None) .....  
Corn, Haw. lg. yel. (None) .....  
Rice, Jap. seed, cwt. (None) .....  
Rice, Haw. seed cwt. .... 6.75  
Peanuts, lg. lb. (None) .....  
Peanuts, sm. lb. (None) .....  
Green peppers, bell ..... .06 to .07  
Green peppers, chili ..... .06 to .07  
Potatoes, ls. l. .... 4.50 to 4.75  
Potatoes, sweet, cwt. .... 1.50 to 1.60  
Potatoes, sweet, red, cwt. .... 1.75  
Taro, cwt. .... .90 to 1.10  
Taro, bunch ..... 15  
Tomatoes ..... 15 to 20  
Green peas, lb. (None) .....  
Cucumber, doz. .... 50 to 60  
Pumpkins, lb. .... .01 1/2

## FRUIT.

Bananas, Chinese, bunch ..... 20 to 50  
Bananas, cooking, bunch ..... 75 to 1.00  
Figs, 100 ..... 1.00  
Grapes, Isabella, lb. .... 12 1/2  
Limes, 100 ..... 75 to 1.00  
Pineapples, cwt. .... 1.25 to 1.50  
Papaia, lb. .... .02  
Strawberries ..... 15 to 20

## LIVESTOCK.

Beef, cattle and sheep are not bought at live weights. They are taken by the meat companies dressed and paid for by dressed weight.

Hogs, up to 150 lb. .... 13 to 14 1/2  
Hogs, 150 and over ..... 10 to 13

## DRESSED MEATS.

Beef, lb. .... 13 to 14  
Veal, lb. .... 13 to 14 1/2  
Mutton, lb. .... 17 1/2  
Pork, lb. .... 18 to 18 1/2

## HIDES, Wet Salted.

Steer, No. 1, lb. .... .20  
Steer, No. 2, lb. .... .19  
Steer hair slip ..... .18  
Kips, lb. .... .20  
Goat, whit ..... 20 to 30

## FEED.

The following are quotations on feed f.o.b. Honolulu:

Corn, sm. yel. ton	80.00
Corn lg. yel. ton	80.00
Corn cracked, ton	82.00
Barley ton	72.00
Scratch food ton	90.00
Oats, ton	70.00
Wheat	105.00
Middling ton	75.00
Hay, wheat	45.00 to 49.00
Hay, Alfalfa	45.00

## FOR SALE

1915 Buick Roadster with new tires, Stromberg carburetor, two spare rims, Klaxonet, new set of chains, and extra tubes. Here's a chance to get a high grade car for less than the price of a Ford. Apply at Paia Store.

BY AUTHORITY

IN THE CIRCUIT COURT OF THE SECOND CIRCUIT, TERRITORY OF HAWAII.

At Chambers.

In the Matter of the Estate of Kikujiro Soga, Late of Paia, Maui, Deceased.

NOTICE TO CREDITORS

All persons having claims against the above Estate are hereby notified to present their claims, duly authenticated, even if the claim is secured by mortgage, to the undersigned at the Baldwin National Bank, Kahului, Maui, T. H. within six months from date of first publication hereof, or they will be forever barred.

(Signed D. C. LINDSAY, Administrator-with the will, annexed, of the Estate of Kikujiro Soga, deceased.)

W. F. CROCKETT, Attorney for Administrator.

(May 11, 18, 25, June 1, 8)

IN THE CIRCUIT COURT OF THE SECOND CIRCUIT, TERRITORY OF HAWAII.

At Chambers.

Klozo Yashimo, Libellant vs. Kame Yashimo, Libellee.

TO KAME YASHIMO, Libellee. You are hereby notified of the pendency of the above suit for divorce against you on the grounds of desertion, and that the same has been set for hearing on Thursday, the 19th day of July, A. D. 1917 at 10 o'clock A. M., in the Court Room of this Court, in Wailuku, Maui, Hawaii, or as soon thereafter as the same may be heard. Wailuku, May 10th, 1917.

BY THE COURT:

V. C. SHOENBERG, Clerk.

ENOS VINCENT, Attorney for Libellant.

(May 11, 18, 25, June 1, 8, 15.)

## BY AUTHORITY

TERRITORY OF HAWAII.  
LAND COURT.

TERRITORY OF HAWAII to S. Keenani, William L. Decoto, Maitalewa, W. K. Mookini, Antone Recard, Sarah Mookini, Edith Pake Recard, Jesse Hiram, W. J. Kahopukahi, Mrs. Kamaka, Hauki, Kapeka, Charles Ford, Mrs. Philip Pali, Sarah Kepookalani, E. Kanamo Polani, Ingram M. Stainback, Attorney General of the Territory of Hawaii, Henry W. Kinney, Superintendent of Public Instruction of the Territory of Hawaii, Bertram G. Rivenburgh, Commissioner of Public Lands of the Territory of Hawaii, the Pioneer Mill Company, Limited, the Lahaina Agricultural Company, Limited, the Mutual Telephone Company, Limited, and E. Faxon Bishop, William O. Smith, Albert F. Judd, Alfred W. Carter and William Williamson, Trustees under the will and of the Estate of Bernice Pauahi Bishop, deceased; and to ALL whom it may concern:

WHEREAS, a petition has been presented to said Court by the Pioneer Mill Company, Limited, to register and confirm its title in the following described land situate in the Ahupuaa of Puunoo 1, at Lahaina, County of Maui, Territory of Hawaii, being a portion of Land Commission Award 8515 to Keoni Ana for G. Lahilahi, Royal Patent 1667, a portion of School Grant 15, Apana 5, to Board of Education, the said land being more particularly described by metes and bounds as follows—

Beginning at a concrete post marked 1, at the East corner of this piece, and the North corner of L. C. A. 333 to Kaahani on the West side of Government Road, the co-ordinates of said concrete post referred to Government Survey Triangulation Station "Latna" are 5207.7 feet South and 5721.5 feet West, and running by true azimuths:

1. 65° 30'	240.0 feet along L. C. A. 333 to Kaahani to a concrete post marked 1 near the edge of swamp;
2. 327° 30'	32.2 feet along same to a concrete post marked 1;
3. 56° 20'	78.0 feet along Grant 962.2 to Puhalahua;
4. 183° 00'	30.0 feet along L. C. A. 11223 to Naowaha;
5. 144° 12'	61.3 feet along same to a concrete post;
6. 60° 30'	44.0 feet along same to fence corner;
7. 141° 55'	202.5 feet along fence, along house lot owned by the Lahaina Agricultural Co., Ltd., to fence corner;
8. 58° 30'	173.0 feet along fence, along house lot, owned by the Lahaina Agricultural Co., Ltd., to high water mark;
	Thence along high water mark, the direct azimuth and distance being;
9. 138° 05'	217.9 feet to a 2" pipe at the Southwest corner of lot owned by the Mutual Telephone Co., Ltd.;
10. 245° 26'	130.5 feet along fence, along lot owned by the Mutual Telephone Co., Ltd.;
11. 185° 37'	72.3 feet along same to a 2" pipe;
12. 165° 31'	67.6 feet along same to a 2" pipe;
13. 136° 14'	160.5 feet along same to a 2" pipe;
14. 75° 57'	100.0 feet along same to high water mark;
	Thence along high water mark, the direct azimuth and distance being;
15. 171° 12'	112.0 feet;
16. 277° 05'	392.9 feet along the Government Land of Alanihi and passing over a concrete post marked 1 at 76 feet to a concrete post marked 1 at fence corner;
17. 333° 04'	359.9 feet along L. C. A. 277 to Kanaia for Lunailo to a concrete post marked 1 at fence corner;
18. 234° 45'	43.6 feet along fence L. C. A. 277 to Kanaia for Lunailo;
19. 241° 16'	149.8 feet along fence, along same;
20. 244° 28'	47.8 feet along fence, along same;
21. 253° 47'	21.7 feet along fence, along same to a concrete post marked 1 on the West side of Government Road;
22. 342° 44'	127.0 feet along fence, along the West side of Government Road;
23. 342° 27'	156.7 feet along the West side of Government Road to the point of beginning. Area—5.77 acres.

YOU ARE HEREBY cited to appear at the Land Court, to be held at the City and County of Honolulu on the 8th day of August A. D. 1917, at one o'clock and thirty minutes in the afternoon, to show cause if any you have, why the prayer of said petition should not be granted. And unless you appear at said Court at the time and place aforesaid your default will be taken as confessed, and you will be forever barred from contesting said petition or any decree entered thereon.

WITNESS THE HONORABLE S. B. KEMP, Judge of said Court, this 9th day of May, in the year nineteen hundred and seventeen.

Attest with seal of said Court:  
ANDREW V. HOGAN,  
Registrar.

(May 18, 25, June 1, 8.)

## TELEGRAPH NEWS OF THE WEEK

## PACIFISTS GETTING BUSY

CHICAGO, May 13—A call for a peace demonstration was issued here last night, signed by prominent Socialists and other pacifists, the demonstration being set for May 27.

The specific object of the demonstration, as outlined in the call, which is said to carry the signature of Jane Addams of Hull House, among other well known names, is to obtain from the President the terms upon which he will agree to enter into peace negotiations with Germany.

## ONE OR TWO MEN TO SPEND BILLION

WASHINGTON, May 13—It has been practically decided that the international purchasing commission, to be named under an agreement between practically all the Entente Powers and the United States, through which all the war orders of all nations are to be placed in America, will be made up of either one or two Americans. It has been decided that this will be best because of the better knowledge Americans will have of local conditions than any European.

## SENATE WOULD BAN BOOZE MAKING

WASHINGTON, May 13—The use of any cereal or grain for the production of intoxicating liquors during the period of the war with Germany is forbidden by the provisions of an amendment to the Espionage Bill adopted by the senate yesterday.

## TO RAISE REGULAR ARMY TO FULL STRENGTH

WASHINGTON, May 14—The expansion of the regular army to its full strength was authorized by the president today.

The organization of new regiments will begin tomorrow. About 65,000 of the 183,000 necessary have already been recruited.

In Buying Machinery  
Do You Figure  
Ultimate Costs?

OR DO YOU FIGURE THAT THE MACHINE WITH THE LOWEST PURCHASE PRICE IS THE CHEAPEST? THE ECONOMY OF

## Allis-Chalmers

MACHINERY IS IN ITS EFFICIENCY, STRENGTH, DURABILITY. IN LONG, SATISFYING SERVICE, THIS IS THE KIND THAT PAYS FOR ITSELF OVER AND OVER.

## HONOLULU IRON WORKS COMPANY

AGENTS

## LOST

The following stock certificates of the Maui Pineapple Co., Ltd. have been lost. All persons are warned against accepting or negotiating same. Finders please notify Maui Shinbun.

No. 109, issued to S. Maruyama.  
No. 610, issued to H. Toyoshima.  
No. 611, issued to H. Toyoshima.  
No. 112, issued to S. Yoshimasu.  
No. 114, issued to S. Yoshimasu.  
No. 636, issued to Tom Sing.  
No. 637, issued to Tom Sing.  
No. 638, issued to Tom Sing.  
No. 639, issued to Tom Sing.  
No. 640, issued to Tom Sing.

## FRESH AS SPRING BREEZES—

That's the way those used garments will return to you after receiving our

## FRENCH CLEANING—

They'll wear longer and look better. All work personally supervised by the proprietors.

## DYEING and CLEANING WORKS

## FRENCH LAUNDRY

J. ABADIE, Prop.  
Jno. D. Souza, Paia Agent M. Uyeno, Kahului Agent  
Jack Linton, Wailuku Agent

## Kahului Lyceum

PROGRAM for the week of May 21.

Monday, May 21st.

DOUGLAS FAIRBANKS in  
"HIS PICTURE IN THE PAPERS"

7 reels of fine comedy; and  
"PEARL OF THE ARMY."

Tuesday, May 22nd.

VIRGINIA PEARSON in  
"DARE DEVIL KATE"

Wednesday, May 23rd.

A remarkably fine picture, produced  
by Thos. H. Ince.

BESSIE HARRIS in  
"THE GREEN SWAMP"

Also a screaming Keystone.

## WATCH FOR "THE FLYING TORPEDO"

## MANUEL S. ROSA, JR., PAIA

ONE PASSENGER PACKARD CAR  
FOR HIRE. PHONE AT HOME AND  
IN GARAGE. RELIABLE SERVICE;  
RATES REASONABLE.

## WAILUKU CONSTRUCTION and DRAYAGE CO., Ltd.

TRANSFERRING AND DRAYING  
"SERVICE FIRST"

## Crisco

FOR FRYING  
FOR SHORTENING,  
FOR CAKE MAKING

WAILUKU-LAHAINA  
AUTO SERVICE

Cars leave Market street.  
Wailuku, daily, about noon.  
Leave Lahaina, 8:00 A. M.  
daily.

Good Comfortable Cars  
Careful Drivers  
Uchida Auto Stand  
Phone 1772 Wailuku